


```

FT DISULFID 385 418 BY SIMILARITY.
FT CARBOHYD 88 88 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 136 136 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 141 141 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 141 141 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 156 156 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 160 160 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 186 186 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 197 197 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 230 230 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 234 234 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 241 241 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 262 262 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 276 276 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 289 289 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 295 295 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 301 301 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 332 332 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 339 339 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 356 356 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 386 386 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 392 392 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 397 397 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 406 406 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 448 448 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 463 463 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 611 611 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 616 616 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 624 624 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 637 637 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 674 674 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 750 750 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 816 816 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 856 AA; 97212 MW; 6FAB16AF85107E0 CRC64;

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Query Match 75.7%; Score 112; DB 1; Length 856;
Best Local Similarity 85.7%; Pred. No. 3.3e-08;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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OY 1 RVTWVQACRAIRHVRIRROGLRRL 28
Db 828 RVLVEVQACRAIRHVRIRROGLRRL 855

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RESULT 2
ENV_HVILW STANDARD; PRT; 856 AA.
AC 070626;
ID 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Envelope polypeptide gp160 precursor [Contains: Exterior membrane
glycoprotein (GP120); Transmembrane glycoprotein (GP41)].
GN ENV.
OS Human immunodeficiency virus type 1 (HIV-1).
OC Viruses; Retrovirdae; Retroviridae; Lentivirus.
OX NCBI_TaxID=82834;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=95127297; PubMed=7826699;
RA Reitz M.S. Jr., Hall L., Robert-Guroff M., Lautenberger J., Hahn B.M.,
Shaw G.M., Kong L.I., Weiss S.H., Waters D., Gallo R.C., Blattner W.;
RT Infected with HIV type 1 (HIV type IIB).";
RT AIDS Res. Hum. Retroviruses 10:1143-1155(1994).
CC -----
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CC or send an email to license@isb-sib.ch).

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CC EMBL: U12055; AAA76690.1; -
DR EMBL: U12055; AAA76690.1; -
DR InterPro: IPR000328; Env GP41.
DR InterPro: IPR000777; GP120.
DR Pfam: PF00516; GP120; 1.
DR Pfam: PF00517; GP41; 1.
KW AIDS; Coat protein; Glycoprotein; Transmembrane;
KW signal.
FT SIGNAL 1 30
FT CHAIN 31 511
FT CHAIN 512 856
FT DISULFID 54 74
FT DISULFID 119 205
FT DISULFID 126 196
FT DISULFID 131 157
FT DISULFID 218 247
FT DISULFID 228 239
FT DISULFID 296 331
FT DISULFID 378 445
FT DISULFID 385 418
FT CARBOHYD 88 88
FT CARBOHYD 136 136
FT CARBOHYD 141 141
FT CARBOHYD 156 156
FT CARBOHYD 160 160
FT CARBOHYD 186 186
FT CARBOHYD 197 197
FT CARBOHYD 230 230
FT CARBOHYD 234 234
FT CARBOHYD 241 241
FT CARBOHYD 262 262
FT CARBOHYD 276 276
FT CARBOHYD 289 289
FT CARBOHYD 295 295
FT CARBOHYD 301 301
FT CARBOHYD 332 332
FT CARBOHYD 339 339
FT CARBOHYD 356 356
FT CARBOHYD 386 386
FT CARBOHYD 392 392
FT CARBOHYD 397 397
FT CARBOHYD 406 406
FT CARBOHYD 448 448
FT CARBOHYD 463 463
FT CARBOHYD 611 611
FT CARBOHYD 616 616
FT CARBOHYD 624 624
FT CARBOHYD 637 637
FT CARBOHYD 674 674
FT CARBOHYD 750 750
FT CARBOHYD 816 816
SQ SEQUENCE 856 AA; 96938 MW; 0C241332CFE687 CRC64;

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Query Match 75.7%; Score 112; DB 1; Length 856;
Best Local Similarity 85.7%; Pred. No. 3.3e-08;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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OY 1 RVTWVQACRAIRHVRIRROGLRRL 28
Db 828 RVLVEVQACRAIRHVRIRROGLRRL 855

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RESULT 3
ENV_HVILW STANDARD; PRT; 861 AA.
ID ENV_HVILW
AC P03377;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Envelope polypeptide gp160 precursor [Contains: Exterior membrane
glycoprotein (GP120); Transmembrane glycoprotein (GP41)].

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FT CARBOHYD 289 289 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 295 295 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 301 301 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 332 332 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 339 339 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 356 356 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 386 386 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 392 392 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 397 397 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 406 406 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 448 448 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 463 463 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 611 611 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 616 616 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 624 624 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 637 637 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 674 674 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 750 750 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 816 816 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 856 AA; 97188 MM; 3373C68BB84C1AFC CRC64;

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Query Match Best Local Similarity 69.6%; Score 103; DB 1; Length 856;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Oy 1 RVIRVORACRAIRHIVRIRIGLRRL 28
    ||| ||| ||| ||| ||| ||| ||| |||
Db 828 RVIEVORACRAIRHIVRIRIGLRRL 855

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RESULT 5
ENV_HV1ND STANDARD; PRT; 846 AA.
ID ENV_HV1ND
AC P18799:
DF 01-NOV-1990 (Rel. 16, Created)
DT 01-NOV-1990 (Rel. 16, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Envelope glycoprotein GP160 precursor [Contains: Exterior membrane
glycoprotein (GP120); Transmembrane glycoprotein (GP41)].
GN ENV.
OS Human immunodeficiency virus type 1 (NDK isolate) (HIV-1).
OC Viruses; Retroid viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11695;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=90034200; Pubmed=2806917;
RA Spire B., Sire J., Zachar V., Rey F., Barre-Sinoussi F., Galibert F.,
RT Hampel A., Chermann J.C.;
RT "Nucleotide sequence of HIV-1 NDK: a highly cytopathic strain of the
human immunodeficiency virus.";
RL Gene 81:275-284(1989).
CC -1- MISCELLANEOUS: NDK, ISOLATED FROM A ZAIRIAN PATIENT AFFECTED WITH
AIDS. AND IS A HIGHLY CYTOPATHOGENIC STRAIN.
CC -----
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CC -----
CC EMBL: M27323; AAA44873.1; -.
DR PIR: J00066; VCLJND.
DR HIV: M27323; ENV$NDK.
DR Interpro: IPR000328; ENV_GP41.
DR Pfam: PF00516; GP120; 1.
DR Pfam: PF00517; GP41; 1.
KW AIDS: Coat protein; polyprotein; glycoprotein; Transmembrane;
KW Signal.
FT SIGNAL 1 29

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FT CHAIN 30 501 EXTERIOR MEMBRANE GLYCOPROTEIN.
FT CHAIN 502 846 TRANSMEMBRANE GLYCOPROTEIN.
FT DISULFID 53 73 BY SIMILARITY.
FT DISULFID 118 200 BY SIMILARITY.
FT DISULFID 125 191 BY SIMILARITY.
FT DISULFID 130 152 BY SIMILARITY.
FT DISULFID 213 242 BY SIMILARITY.
FT DISULFID 223 234 BY SIMILARITY.
FT DISULFID 291 328 BY SIMILARITY.
FT DISULFID 374 435 BY SIMILARITY.
FT DISULFID 381 408 BY SIMILARITY.
FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 129 129 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 151 151 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 179 179 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 182 182 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 229 229 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 236 236 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 257 257 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 271 271 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 284 284 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 290 290 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 351 351 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 382 382 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 388 388 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 392 392 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 395 395 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 401 401 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 438 438 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 451 451 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 452 452 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 601 601 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 606 606 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 615 615 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 627 627 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 846 AA; 96476 MM; 8A3B9DA527DE2E83 CRC64;

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Query Match Best Local Similarity 68.9%; Score 102; DB 1; Length 846;
Matches 21; Conservative 75.0%; Pred. No. 8.2e-07; Mismatches 4; Indels 0; Gaps 0;

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Oy 1 RVIRVORACRAIRHIVRIRIGLRRL 28
    ||| ||| ||| ||| ||| ||| ||| |||
Db 818 RVIEVORACRAIRHIVRIRIGLRRL 845

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RESULT 6
ENV_HV1W2 STANDARD; PRT; 847 AA.
ID ENV_HV1W2
AC P05880;
DF 01-NOV-1988 (Rel. 09, Created)
DT 01-NOV-1988 (Rel. 09, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Envelope glycoprotein GP160 precursor [Contains: Exterior membrane
glycoprotein (GP120); Transmembrane glycoprotein (GP41)].
GN ENV.
OS Human immunodeficiency virus type 1 (WMJ2 isolate) (HIV-1).
OC Viruses; Retroid viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11705;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86235450; Pubmed=3012778;
RA Hahn B.H., Shaw G.M., Taylor M.E., Redfield R.R., Markham P.D.,
RA Salahuddin S.Z., Wong-Staal F., Gallo R.C., Parks E.S., Parks W.P.;
RT "Genetic variation in HIV-III/LAV over time in patients with AIDS or
at risk for AIDS.";
RL Science 232:1548-1553(1986).
CC -1- MISCELLANEOUS: ISOLATES WMJ1, WMJ2, AND WMJ3 WERE OBTAINED FROM
CC BLOOD SAMPLES SEQUENTIALLY TAKEN FROM A TWO-YEAR OLD HAITIAN WHO
CC WAS PERINATALLY INFECTED BY HER MOTHER.
CC -----
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[illegible]

ID	ENV_HV1B8	STANDARD:	PRT:	851 AA.
AC	P04582:			
DT	13-AUG-1987 (Rel. 05, Created)			
DT	13-AUG-1987 (Rel. 05, Last sequence update)			
DT	15-JUL-1999 (Rel. 38, Last annotation update)			
DE	Envelope glycoprotein GP120 precursor [Contains: Exterior membrane glycoprotein (GP120); Transmembrane glycoprotein (GP41)].			
DE	ENV.			
OS	Human immunodeficiency virus type 1 (BH8 isolate) (HIV-1).			
OC	Viruses; Retroviral viruses; Retroviridae; Lentiviruses.			
OX	NCBI_TaxID=11684;			
RA	[1]			
RA	SEQUENCE FROM N.A.			
RA	MEDLINE=85111123; PubMed=2578615;			
RA	Ratner L., Haseltine W., Patarca R., Livak K.J., Starich B.R.,			
RA	Josephs S.F., Doran E.R., Ratajski J.A., Whitehorn E.A.,			
RA	Baumensterger K., Ivanoff L., Peteway S.R. Jr., Pearson M.L.,			
RA	Laumenberger J.A., Papas T.S., Ghayab J., Chang N.T., Gallo R.C.,			
RA	Wong-Straal F.;			
RL	"Complete nucleotide sequence of the AIDS virus, HTLV-III.";			
RL	Nature 313:277-284(1985).			
CC	-----			
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CC	the European Bioinformatics Institute. There are no restrictions on its			
CC	use by non-profit institutions as long as its content is in no way			
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CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/			
CC	or send an email to license@isb-sib.ch).			
CC	-----			
DR	EMBL: K02011; AAA4661.1; -.			
DR	HIV, K02011; ENVSPB8.			
DR	GlycoSiteDB: P04582; -.			
DR	InterPro: IPR000328; Env_GP41.			
DR	InterPro: IPR000777; GP120.			
DR	Pfam: PF00516; GP120; 1.			
DR	Pfam: PF00517; GP41; 1.			
KW	AIDS; Coat protein; Glycoprotein; Glycoprotein; Transmembrane;			
KW	Signal.			
FT	SIGNAL.	30		
FT	CHAIN	31 506		
FT	CHAIN	507 851		
FT	DISULFID	54 74		
FT	DISULFID	119 205		
FT	DISULFID	126 196		
FT	DISULFID	131 157		
FT	DISULFID	218 247		
FT	DISULFID	228 239		
FT	DISULFID	296 331		
FT	DISULFID	378 440		
FT	DISULFID	385 413		
FT	CARBOHYD	88		
FT	CARBOHYD	136 136		
FT	CARBOHYD	141 141		
FT	CARBOHYD	156 156		
FT	CARBOHYD	160 160		
FT	CARBOHYD	186 186		
FT	CARBOHYD	197 197		
FT	CARBOHYD	230 230		
FT	CARBOHYD	234 234		
FT	CARBOHYD	241 241		
FT	CARBOHYD	262 262		
FT	CARBOHYD	276 276		
FT	CARBOHYD	295 295		
FT	CARBOHYD	301 301		
FT	CARBOHYD	332 332		
FT	CARBOHYD	339 339		

FT	CARBOHYD	356	356	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	386	386	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	392	392	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	401	401	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	443	443	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	458	458	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	606	606	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	611	611	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	620	620	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	632	632	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	649	649	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	745	745	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
FT	CARBOHYD	811	811	N-LINKED (GLCNAC. . .)	(POTENTIAL).				
SO	SEQUENCE	851 AA;	96644 MW;	D16A3C90857785F1	CRC64;				
Query Match		66.9%;	Score 99;	DB 1;	Length 851;				
Best Local Similarity		78.6%;	Pred. No. 2.2e-06;						
Matches 22;		Conservative 1;	Mismatches 5;	Indels 0;	Gaps 0;				
QY	1	RIRIVVQRCRAIRHIVRIRIGLRIL	28						
		: : : : :							
Db	823	RVIELVQAYRAIRHIRIRIGLERIL	850						
RESULT 12									
ENV_HV122	ENV_HV122	STANDARD:	PRT:	853	AA.				
AC	P12487:								
DT	01-OCT-1989 (Rel. 12, Created)								
DT	01-OCT-1989 (Rel. 12, Last sequence update)								
DT	16-OCT-2001 (Rel. 40, Last annotation update)								
DE	Envelope polypeptide GP160 precursor [Contains: Exterior membrane glycoprotein (GP120); Transmembrane glycoprotein (GP41)].								
GN	ENV.								
OS	Human immunodeficiency virus type 1 (Z2/CDC-Z34 isolate) (HIV-1).								
OC	Viruses; Retroid viruses; Retroviridae; Lentivirus.								
OX	NCBI_TaxID=11683;								
RN	[1]								
RP	SEQUENCE FROM N.A.								
RA	Theodore T., Buckler-White A.;								
RL	Submitted (NOV-1988) to the HIV data bank.								

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CC	-----								
DR	EMBL; M22639; AAA45370.1; .								
DR	HIV; M22639; ENV5226.								
DR	InterPro; IPR000328; ENV_GP41.								
DR	InterPro; IPR000777; GP120.								
DR	Pfam; PF00516; GP120; 1.								
KM	AIDS; Coat protein; Polypeptide; Glycoprotein; Transmembrane; Signal.								
FT	SIGNAL	1	31	BY SIMILARITY.					
FT	CHAIN	32	508	EXTERIOR MEMBRANE GLYCOPROTEIN.					
FT	CHAIN	509	853	TRANSMEMBRANE GLYCOPROTEIN.					
FT	DISULFID	53	73	BY SIMILARITY.					
FT	DISULFID	118	206	BY SIMILARITY.					
FT	DISULFID	125	197	BY SIMILARITY.					
FT	DISULFID	130	154	BY SIMILARITY.					
FT	DISULFID	219	248	BY SIMILARITY.					
FT	DISULFID	229	240	BY SIMILARITY.					
FT	DISULFID	297	330	BY SIMILARITY.					
FT	DISULFID	376	442	BY SIMILARITY.					
FT	DISULFID	383	415	BY SIMILARITY.					
FT	CARBOHYD	87	87	N-LINKED (GLCNAC. . .) (POTENTIAL).					
FT	CARBOHYD	137	137	N-LINKED (GLCNAC. . .) (POTENTIAL).					

FT CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 153 153 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 157 157 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 185 185 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 188 188 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 198 198 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 242 242 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 263 263 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 277 277 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 290 290 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 296 296 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 331 331 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 338 338 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 353 353 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 384 384 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 390 390 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 402 402 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 441 441 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 445 445 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 458 458 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 459 459 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 462 462 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 608 608 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 613 613 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 622 622 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 634 634 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 671 671 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 853 AA; 97043 MW; 849B08BCBAFF7008 CRC64;

Query Match 66.2%; Score 98; DB 1; Length 853;
Best Local Similarity 67.9%; Pred. No. 3e-06;
Matches 19; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

OY 1 RVIRVORACRAIRHVRIRRIROGLRRL 28
Db 825 RVIEIVRACRAVLNIPRIRRIROGLRSL 852

RESULT 13
ENV_HVIEL STANDARD; PRT; 853 AA.
AC P04581;
DT 13-AUG-1987 (Rel. 05, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Envelope polypeptide GP160 precursor [Contains: Exterior membrane glycoprotein (GP120); Transmembrane glycoprotein (GP41)].
GN ENV.
OS Human immunodeficiency virus type 1 (HIV isolate) (HIV-1).
OC Viruses; Retroviral viruses; Retroviridae; Lentivirus.
OX NCBI_Taxid-11689;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE-86245056; PubMed-2424612;
RA Allison M., Wain-Hobson S., Montagnier L., Sonigo P.;
RT "Genetic variability of the AIDS virus: nucleotide sequence analysis of two isolates from African patients.";
RL Cell 46:63-74(1986).
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CC -----
CC EMBL; K03454; AAA44329.1; -
CC EMBL; A07108; CAA00616.1; -
CC HIV; K03454; ENVSEL.
DR InterPro: IPR000328; Env_GP41.

DR InterPro: IPR000777; GP120.
DR Pfam: PF00516; GP120; 1.
DR Pfam: PF00517; GP41; 1.
KW AIDS; Coat protein; Polypeptide; Glycoprotein; Transmembrane; Signal.
FT SIGNAL 1 31 BY SIMILARITY.
FT CHAIN 32 508 EXTERIOR MEMBRANE GLYCOPROTEIN.
FT CHAIN 509 853 TRANSMEMBRANE GLYCOPROTEIN.
FT DISULFID 53 73 BY SIMILARITY.
FT DISULFID 118 206 BY SIMILARITY.
FT DISULFID 125 197 BY SIMILARITY.
FT DISULFID 130 154 BY SIMILARITY.
FT DISULFID 219 248 BY SIMILARITY.
FT DISULFID 229 240 BY SIMILARITY.
FT DISULFID 297 330 BY SIMILARITY.
FT DISULFID 376 442 BY SIMILARITY.
FT DISULFID 383 416 BY SIMILARITY.
FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 129 129 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 137 137 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 143 143 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 153 153 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 157 157 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 183 183 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 188 188 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 198 198 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 242 242 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 263 263 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 277 277 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 290 290 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 331 331 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 353 353 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 384 384 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 390 390 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 394 394 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 400 400 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 405 405 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 406 406 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 411 411 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 445 445 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 458 458 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 459 459 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 462 462 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 608 608 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 613 613 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 622 622 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 634 634 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 853 AA; 96721 MW; F9CD864DAAD07A5 CRC64;

Query Match 64.9%; Score 96; DB 1; Length 853;
Best Local Similarity 67.9%; Pred. No. 5.7e-06;
Matches 19; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

OY 1 RVIRVORACRAIRHVRIRRIROGLRRL 28
Db 825 RVIEIVRACRAVLNIPRIRRIROGLRSL 852

RESULT 14
ENV_HVIA2 STANDARD; PRT; 855 AA.
AC P03378;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Envelope polypeptide GP160 precursor [Contains: Exterior membrane glycoprotein (GP120); Transmembrane glycoprotein (GP41)].
GN ENV.
OS Human immunodeficiency virus type 1 (HIV/SF2 isolate) (HIV-1).
OC Viruses; Retroviral viruses; Retroviridae; Lentivirus.
OX NCBI_Taxid-11685;

FT	CARBOHYD	276	276	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	289	289	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	295	295	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	301	301	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	331	331	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	354	354	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	360	360	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	384	384	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	390	390	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	396	396	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	400	400	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	442	442	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	456	456	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	607	607	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	612	612	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	621	621	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	633	633	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	670	670	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	812	812	N-LINKED (GLCNAC. . .) (POTENTIAL).
SO	SEQUENCE	852 AA;	97203 MM;	2BB86345DEC915F CRC64;

Query Match Best Local Similarity 72.4%; Score 93; DB 1; Length 852;
Matches 21; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

OY 1 RYIRVVQACRAIRHIVRIQGLRRLR 29
DB 824 RAIEVVQRAFRALIHIPRIQGLERALQ 852

Search completed: August 14, 2002, 10:59:45
Job time: 501 sec

